TERMINATION METHOD FOR IMT-2000 COMMUNICATION NETWORK SUBSCRIPTION TERMINAL HAVING PLURAL TERMINATION IDENTIFIERS

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Abstract of **KR20020086993**

PURPOSE: A termination method for an IMT(International Mobile Telecommunication)-2000 communication network subscription terminal having plural termination identifiers is provided to stably terminate a packet-based incoming call through a corresponding socket network to a subscriber in case that the subscriber capable of being registered in a domain of the socket network and an all-IP domain is registered in only the socket network and receives a service. CONSTITUTION: An I-CSCF (Interrogating-Call Status Control Function) recognizes a received interrogating call message is an incoming call as to an SIP(Session Initiation Protocol) URL(Uniform Resource Location) address, and requests location registration information from an HSS(Home Subscriber Server)(20)(S202). The HSS (20) searches roaming information, and provides searched roaming information to the I-CSCF(10) (S203). The I-CSCF(10) changes the SIP URL address of the interrogating call to a corresponding MSISDN on the basis of provided roaming information, and transmits the interrogating call message in which the termination identifier is changed to a BGCF(Breakout Gateway Control Function)(30)(S204). The BGCF(30) confirms that the interrogating call message transmitted from the I-CSCF(10) is an incoming call, registered as the MSISDN, as to a subscriber terminal, determines a channel on the basis of the confirmation, and transmits the interrogating call message to a corresponding MGCF (Media Gateway Control Function)(40) according to the determination(S205). The MGCF(40) determines a subset of a media flow according to the interrogating call message transmitted from the BGCF(30), and transmits an SDP(Session Description Protocol) message to a caller terminal through the I-CSCF(10)(S206,S207). If the last SDP message is transmitted from the corresponding caller terminal to the I-CSCF(10)(S208), the I-CSCF(10) transmits the last SDP message to the MGCF(40) (S209). The MGCF(40) assigns resources on the basis of the last SDP message(S210), and transmits an IP-IAM(Initial Address Message) to a corresponding domain of the socket network(S211). If an IP-ANM(Answer Message) is received from the domain of the socket network(S215), the MGCF(40) starts a bi-directional media flow between a caller and a callee on the basis of the IP-ANM(S216). The MGCF (40) transmits the SIP-based last answer message to the caller terminal through the I-CSCF(10) (S217,S218).